

**Session Program**

**3-5 Dec 2025**

**The 22nd Workshop of the LHC Higgs  
Working Group**

***WG4 parallel session***

CERN, 503/1-001 - Council Chamber

# Thursday 4 December

09:00

## WG4 parallel session: WG4 parallel session

**Session** | **Location:** CERN, 4/3-006 - TH Conference Room | **Convener:** Fabio Monti

09:00–09:15

### The structure of quark mass corrections in the $gg \rightarrow HH$ amplitude at high-energy (15'+5')

**Speaker**

Sebastian Eryk Jaskiewicz

09:20–09:35

### New HH BSM benchmarks (15'+5')

**Speaker**

Milada Margarete Mühlleitner

09:40–09:55

### ATLAS+CMS HHH recent results (15'+5')

**Speaker**

Marko Stamenkovic

10:00–10:15

### Direct probes of the quartic Higgs self-coupling (15'+5')

**Speaker**

Gilberto Tetlalmatzi-Xolocotzi

10:30

11:00

## WG4 parallel session

**Session** | **Location:** CERN, 4/3-006 - TH Conference Room | **Convener:** Fabio Monti

11:00–11:12

### Public ggxy library (12'+3')

**Speaker**

Kay Schonwald

11:15–11:27

### Higgs-Pair Production via Gluon Fusion: Top-Yukawa- and light-quark-induced electroweak Corrections (12'+3')

**Speaker**

Sauro Carlotti

11:30–11:42

### Electroweak corrections to Higgs boson pair production: The light quark case (12'+3')

**Speaker**

Philipp Rendler

11:45–11:57

### SMEFT and HEFT di-Higgs Event-Level Reweighting (12'+3')

**Speaker**

Matheus Pereira Coelho

12:00–12:12

### Higgs pair production via gluon fusion to higher orders in HEFT (12'+3')

**Speaker**

Konstantin Schmid

12:15-12:27

**NMSSMScanner - Performing intelligent scans in the NMSSM parameter space (12' + 3')**

**Speaker**

Martin Gabelmann

12:30